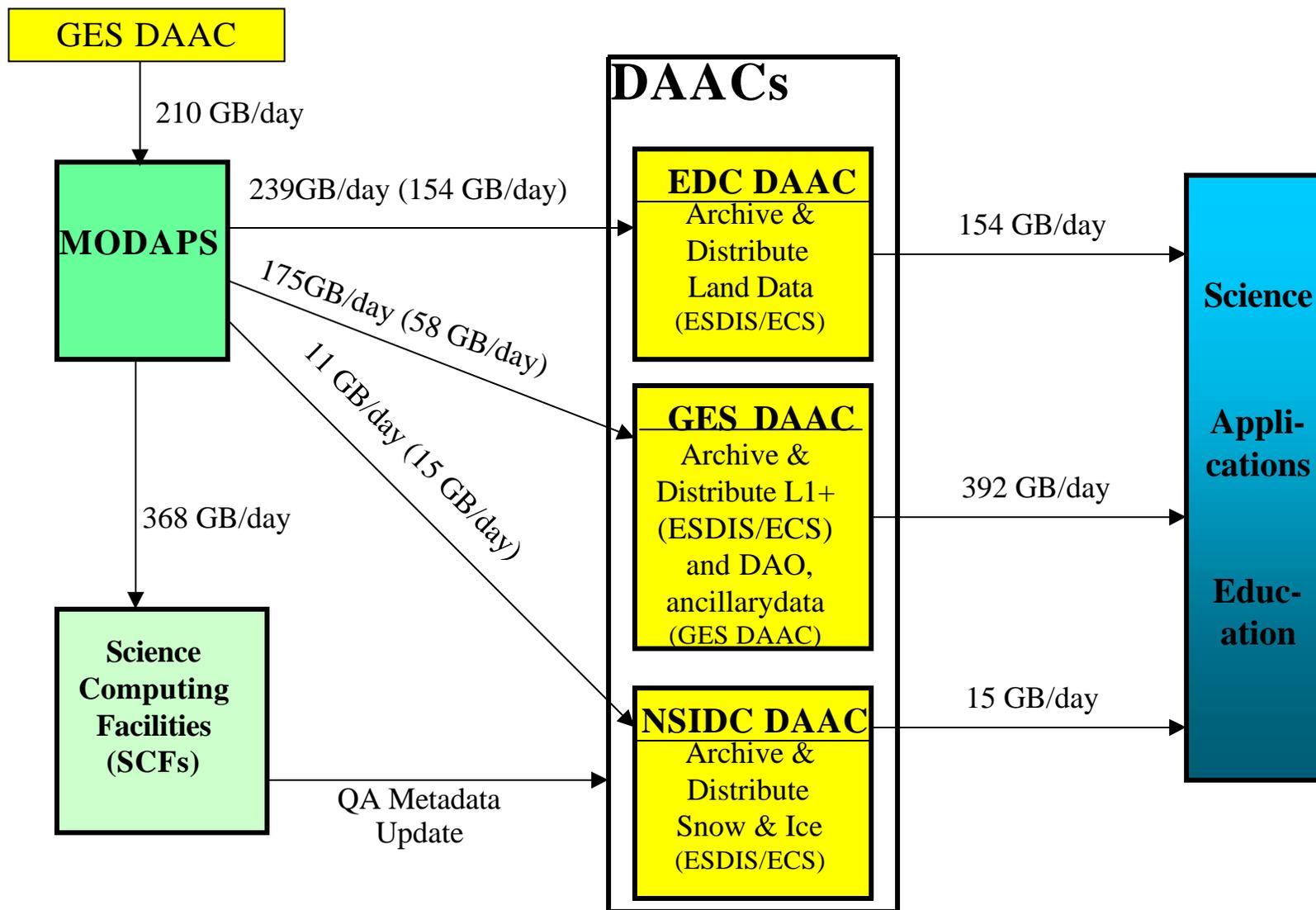


# MODAPS Status and Plans

Edward Masuoka, Code 922

MODIS Science Data Support Team

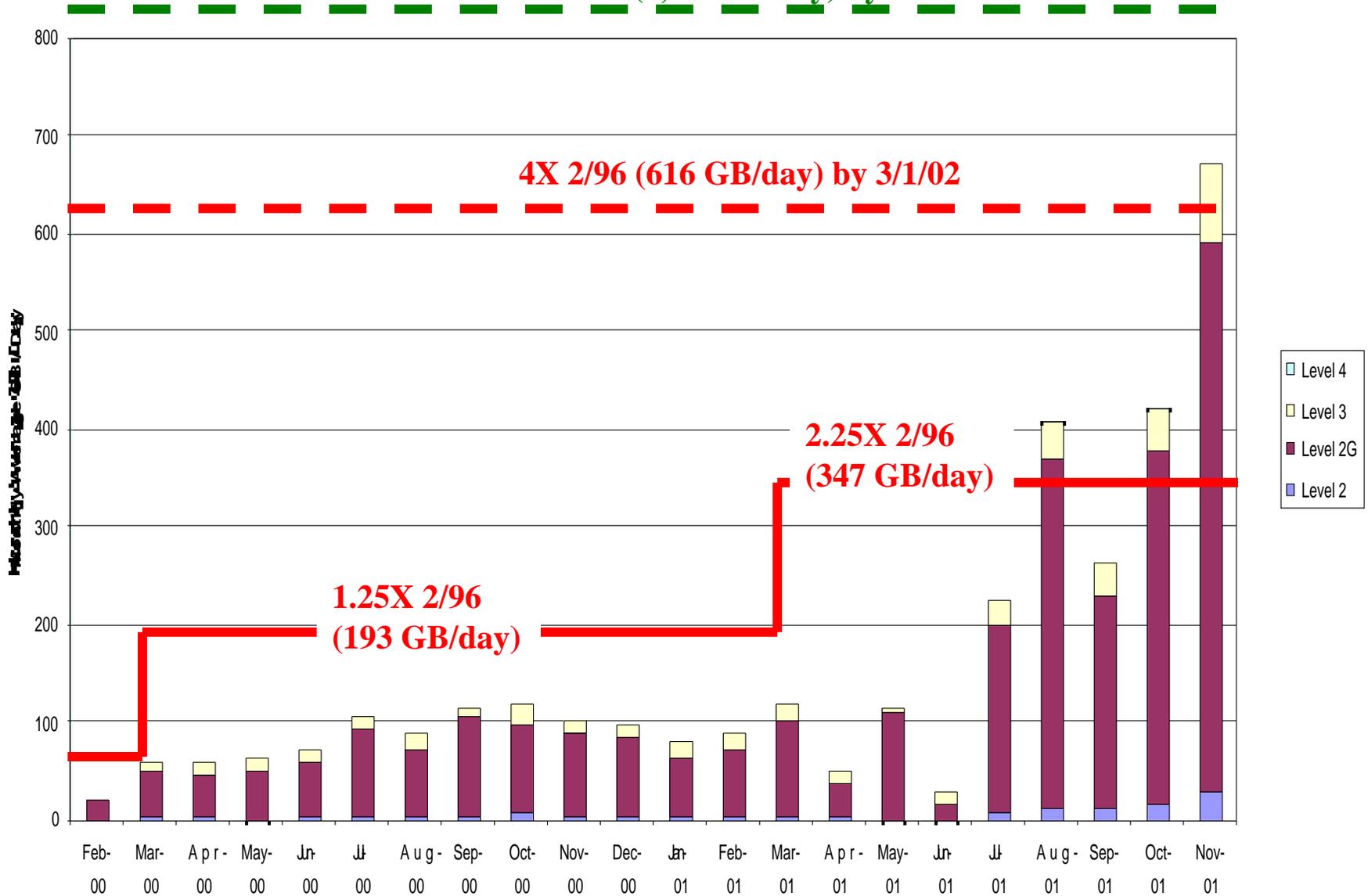
NASA's Goddard Space Flight Center



MODIS Level 2+ Average Volume at 1X processing rate with 2/96 baseline volumes in ( ) where different from current production

EDAAC Ingest of MODIS Land Data February 2000 to November 30, 2001

**3X 6/00 + .5X 2/96 (1,028GB/day) by 5/15/02**



# MODAPS

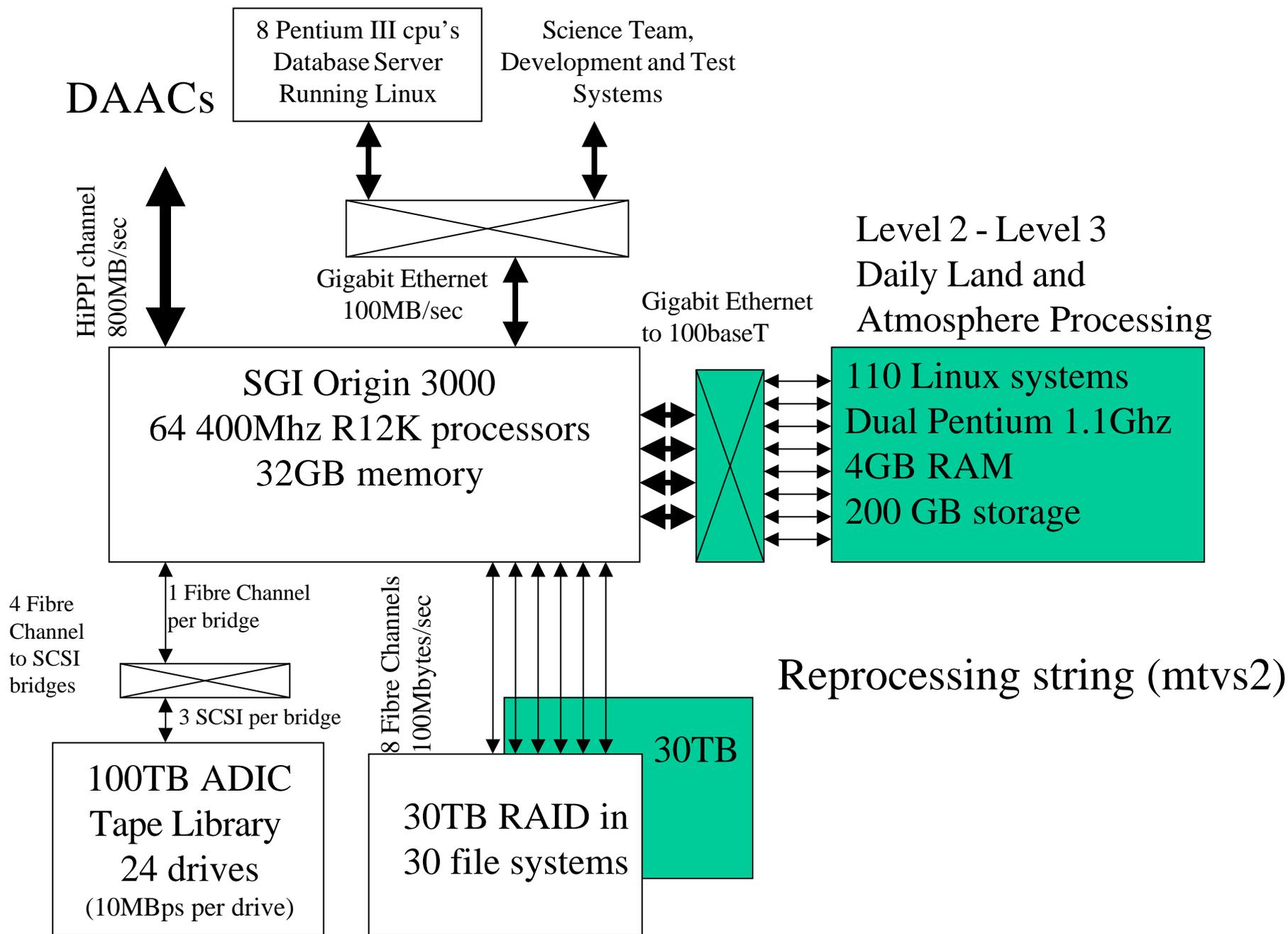
- MODAPS produces 2.4TB/day and ships 1.2TB to DAACs for archive and 1.1TB to Science Team when running at 3X
  - 1x forward processing for Terra and 2x reprocessing
- Current processing systems are:
  - 80p SGI Origin 2000 for forward processing and
  - 64p SGI Origin 3000 for reprocessing

# MODIS Production Rates

|        | 2001 | 2002 |
|--------|------|------|
| GDAAC  | 3X   | 4X   |
| MODAPS | 2.5X | 4X   |

# Archived Volume (GB/day)

|        | 2/96<br>Baseline | 7/01<br>Current | 2/02<br>SWG<br>Terra | 4/03<br>SWG<br>Combined |
|--------|------------------|-----------------|----------------------|-------------------------|
| GSFC   | 58               | 175             | 175                  | 229                     |
| EDC    | 154              | 239             | 318                  | 328                     |
| NSIDC  | 16               | 12              | 16                   | 40                      |
| Totals | 228              | 426             | 509                  | 600                     |



# MODAPS 2002

- 140 dual-processor systems running Linux will be added to the SGI Origins in March 2002
  - Linux processors will run Level 2 through Level 3 Daily products (70% of processing load)
  - PGEs have been ported and products are being verified by Science Team (due date 1/31/02)
  - In testing, 32 Linux systems =1X production
- Disk increased by 60TB to handle extra volume
- Can meet required 4X (3x Terra, 1X Aqua) for 2002, Aqua volume is still at 2/96 baseline

# Upgrade Test System

- Adding 32 Linux processors to existing 16 processor SGI Origin 2000
- Adding 9TB of disk to test system (11TB total)
- Allows science testing at 1x
- Test system will be used to test both PGE and MODAPS system changes
- Global test data sets are being defined to allow better science testing of 8, 16, 32-day products

# Future

- Finish Linux product verification 1/31
- Install redundant power for production 2/02
- Improve Export error handling 3/31
- Machine-to-Machine Ordering for Reprocessing 7/02